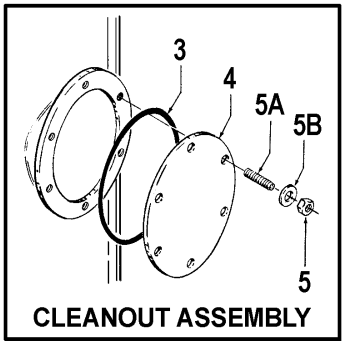
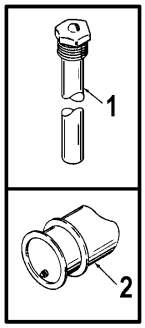
A.O. SMITH
WATER PRODUCTS COMPANY

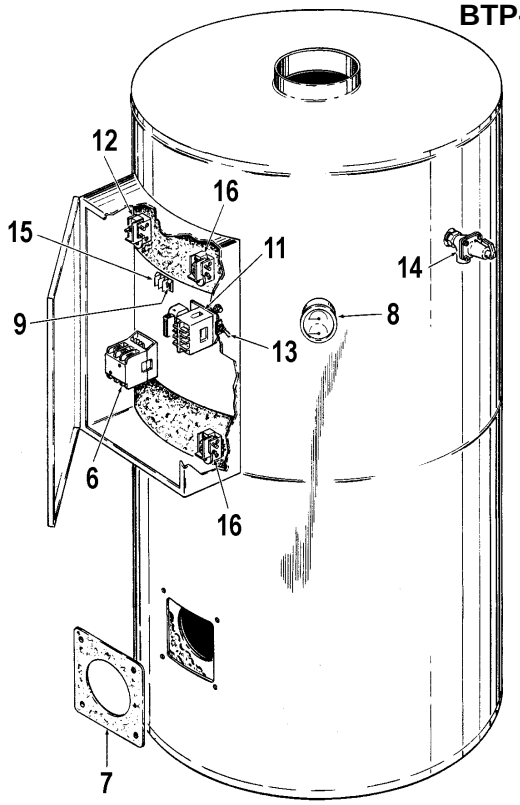
GAS

COMMERCIAL POWER BURNER
TANK TYPE WATER HEATER
REPLACEMENT PARTS LIST

MODELS BTP-125-140 THRU BTP-125-720/BTP-200-300 THRU BTP-200-1500/ BTP-300-300 THRU BTP-300-1500/BTP-400-600 THRU BTP-400-2500/ BTP-600-700 THRU BTP-600-2500







Item	Description	Part Number
1	Anode, Plug	95433-2
	BTP-125-140 thru BTP-125-720	(two used)
	BTP-200-300 thru BTP-200 thru 600 and BTP-300-300 thru BTP-300-600	(three used)
	BTP-200-1000 thru BTP-200-,500, BTP-300-1000 thru BTP-300-1500 and BTP-400-600 thru BTP-400-1250	(four used)
	BTP-400-1500 thru BTP-400-2000	(five used)
	BTP-400-2250 thru BTP-400-2500 and BTP-600-720 thru BTP-600-2500	(six used)
2	Barometric Draft Regulators	
	BTP-125-140	5700-6
	BTP-125-199, BTP-125-270, BTP-200-300 and BTP-300-300	5700
	BTP-125-400	5700-7
	BTP-125-540, BTP-200-600, BTP-300-600 and BTP-400-600	5700-1
	BTP-125-720, BTP-200-600, BTP-200-1000, BTP-300-600, BTP-300-1000, BTP-400-600, BTP-400-1000, BTP-600-720 and BTP-600-1000	5700-2
	BTP-200-1250, BTP-200-1500, BTP-300-1250, BTP-300-1500, BTP-400-1250, BTP-400-1500, BTP-600-1250 and BTP-600-1500	5700-3
	BTP-400-1750, BTP-400-2000, BTP-600-1750 and BTP-600-2000	5700-4
	BTP-400-2250, BTP-400-2500, BTP-600-2250 and BTP-600-2500	5700-5
	Cleanout Assembly	
3	Gasket, O-Ring	75670-501
4	Pressure Plate	160332-2

Item	Description	Part Number
5	Nut,Hex 3/8"	5990-1
5A	Stud, Allen Head	5990
5B	Washer, 5/16"	5990-2
6	Contactor, 3 Pole, 50 AMP (120V)	5102-3
7	Gasket, Burner	
	G-2SD	5955-1
	J15A-10, J30A-12	5955-2
	CR2-G-15, CR2-G-20A	5955-3
8	Gauge, Pressure & Temperature	5250
9	Ground, Lug	5291
10	Probe, Low Water Cutoff	5106
11	Relay, Low Water Cutoff	5105
12	Switch, High Limit. Manual Reset 220°F	
	Models BTP-600-720 thru BTP-600-2500 only	5218
	All Other Models	5107
13	Switch, Pilot (On-Off) 120V	5110
14	Temperature and Pressure Valves (125 lbs.)	
	BTP-125-140 and BTP-125-199	5235
	BTP-125-270 thru BTP-125-720, BTP-200-300 thru BTP-200-1000, BTP-300-300 thru BTP-300-1000, BTp.400-600 thru BTP-400.1000, BTP-600-720 thru BTP-600-2000	5235-2
	BTP-200-1250 thru BTP-200-1500, BTP-300-1250 thru BTP-300-1500, BTP-400-1250 thru BTP-400-2000, BTP-600-1250 thru BTP-600-2000	97770
	BTP-400-2250 thru BTP-400-2500, BTP-600-2250 thru BTP-600-2500	5235-3
15	Terminal Strip	5798
16	Thermostat, Range 94°F to 194°F	5145

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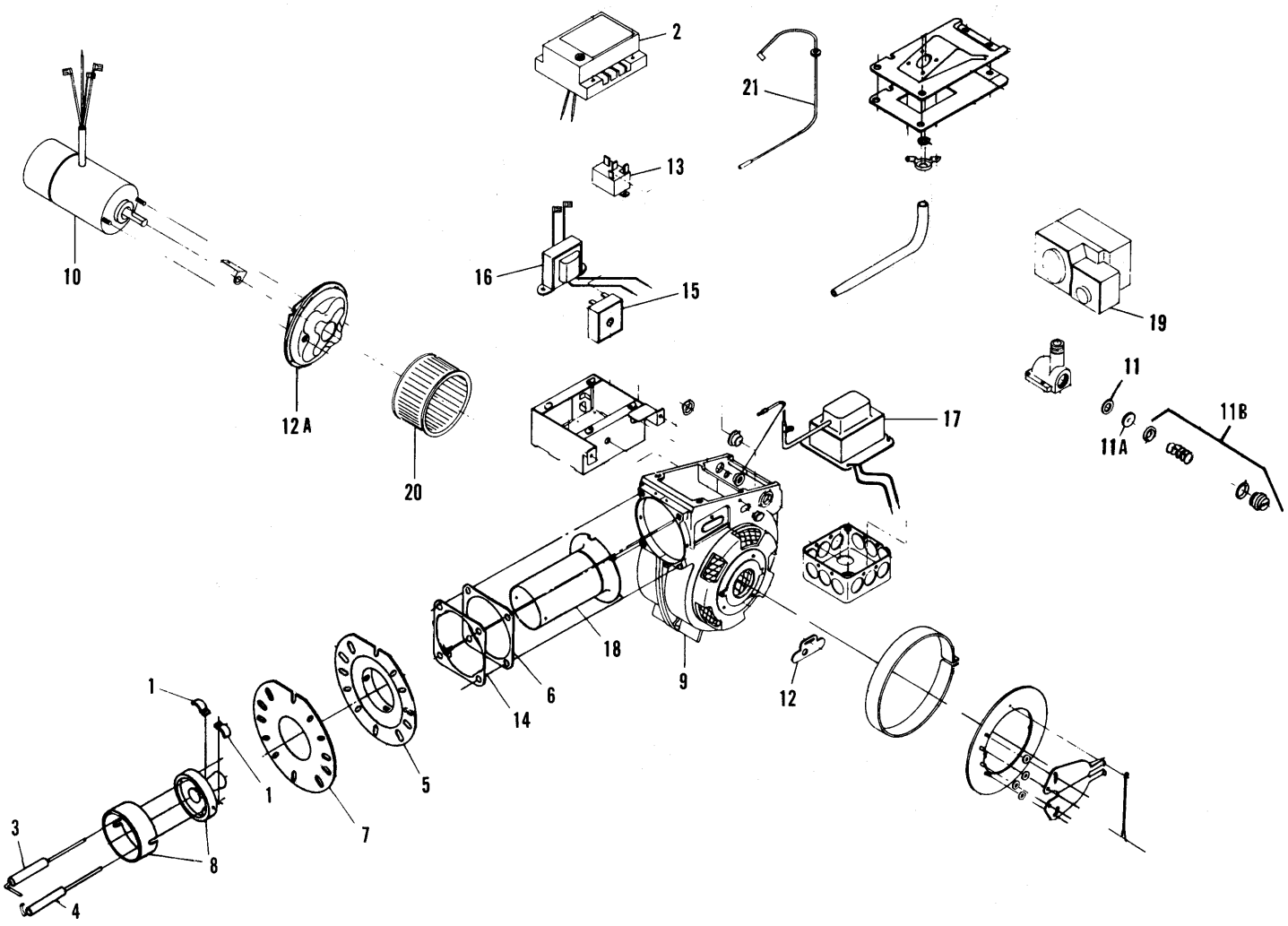
POWER BURNER MODEL G-2SD



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POWER BURNER MODEL G-2SD

Item	Description	Part Number
1	Clamp, Electrode	5861
2	Control, Primary	5855
3	Electrode Assembly, Flame Proving	5859
4	Electrode Assembly, Ignition	5860
5	Flange, Mounting	5865
6	Gasket, Flange/Housing	5863
7	Gasket,MountingFlange	5866
8	Head Assembly (Includes Items 1, 3,4)	5858
9	HousingAssembly	5885
10	Motor, Blower	5850
11	Orifice	(SEE CHART)
11A	Orifice, Auxiliary	5870
11B	Orifice,CapandO-RingKit	5873-1
12	Plate, Escutcheon	5897
12A	Plate,MotorMounting	5852
13	Relay	5888
14	Retainer, Air Tube	5864
15	Timer	5891
16	Transformer 25V	5889
17	Transformer,Ignition	5890
18	Tube, Blast.	5862
19	Valve,Gas	5880
20	Wheel, Blower.	5851
21	Wire,FlameProvingConnecting	5879

Standard hardware items may be purchased locally.

ORIFICE CHART

Models	Burner Number	Natural Gas Orifice		Propane Gas Orifice	
		Part No	(Decimal)	Part No	(Decimal)
BTP 125-140	G-2SD	5867-281	.281	5867-221	.221
BTP 125-199	G-2SD	5867-323	.323	567-257	.257

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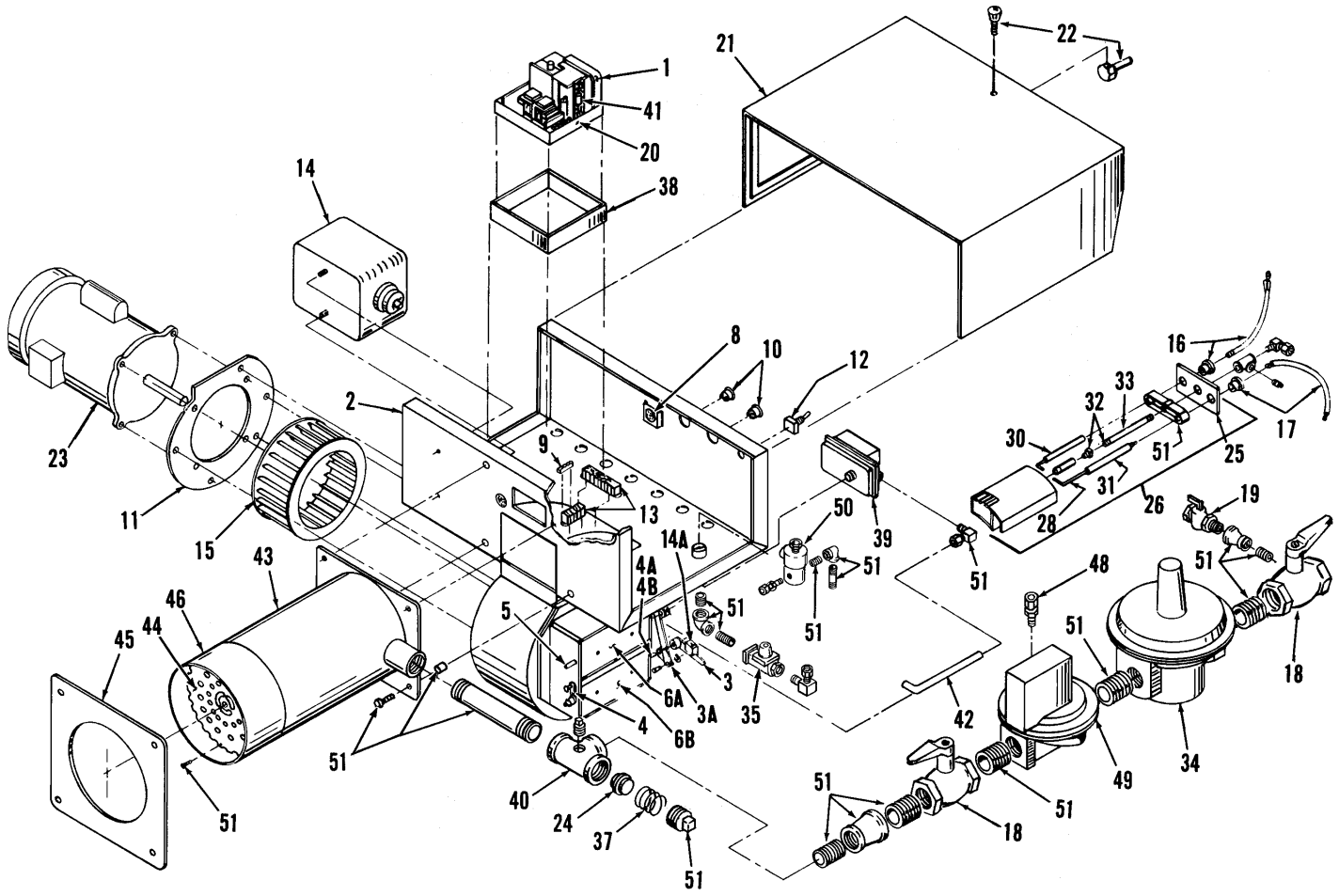
POWER BURNER MODELS J-15A-10 AND J-30A-12



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POWER BURNER MODELS J-15A-10 AND J-30A-12

Item	Description	Part Number
1	Amplifier	
	Flame Rod Pilot, Green Amp	5701
2	Blower Housing, Cabinet & Damper Assembly	5721
3	Arm Crank	5754
3A	*Arm, Damper	5723
	Arm, Locking	
4A	Tapped Fixed Air	5724
4B	Adjustable Air	5724-1
5	Axle, Damper	5725
	Blade, Damper	
6	Upper	5726
6A	Lower	5726-2
7	*Cross Link	5727
8	Glass, Sight	5729
9	Grounding Bar	5730
10	Light, Signal	
	Amber	5728
	White	5728-1
11	Plate, Motor (Not Included In Assembly)	
	J15/A 5722	
	J30/A 5722-1	
12	Switch.Control	5732
13	Terminal Strip	5731
14	Transformer, Ignition	5734
14A	Weight, Damper	5726-3
15	Wheel, Blower (Not Included in Assembly)	
	J15/A	5733
	J30/A	5733-1
16	Cable, Flame Rod (Consisting Of):	
	Cable, #14-19 GTO 15,000	5710
	#10 Stud Ring..	5711
17	Cable, Ignition	
	Cable, #14-19 GTO 15,000	5710
	#2 Rajah Ring Terminal	5713
	CT-Rajah Cage Terminal	5714
18	Cock, Gas	
	J15/A	5719
	J30/A	5719-1
19	Cock, Pilot	5720
20	Control, Less Amplifiers	5978

Item	Description	Part Number
21	Hood Assembly	5735
22	Latch & Knob, Door	5736
23	Motor, Blower	
	J15/A1/4HP	5705
	J30/A1/3H.P	5705-1
24	Orifice, Side (Main Burner)	(SEE CHART)
25	Plate, Pilot Back	5743
26	Pilot Assembly	
	Propane	5706
	Natural	5706-1
28	Flame Rod With Porcelain	5744
30	Ignition, Electrode	5746
31	Insulator, Porcelain (Only for Flame Rod)	5745
32	Orifice, Pilot	
	Natural	5709
	Propane	5709-1
33	Tubing, Aluminum Pilot	5748
34	Regulator, Gas Pressure (Natural and Propane).	
	J15/A	5741
	J30/A	5741-1
35	Regulator, Pilot	5742
37	Spring, Side Orifice	5751
38	Sub-Base	5703
39	Switch, Air	5752
40	Tee, Side Orilice	5750
41	Timer Control	5704
43	Tube, Blast Assembly	5715
44	Diffuser (Includes Stainless Steel	
	Mounting Screws)	5716
45	Flange, Boiler	5717
47	* Valve, Auxiliary Solenoid Gas	
	J15/A	5737
	J30/A	5737-1
48	Valve, Bleed (For Diaphragm Gas Valve)	5738
49	Valve, Diaphragm Gas :	
	J15/A	5739-5
	J30/A	5739-4
50	Valve, Pilot	5740

51 Standard hardware items may be purchased locally

*Not illustrated

ORIFICE CHART

Models	Burner Number	Part No	Natural Gas Orifice (Decimal)	Part No	Propane Gas Orifice (Decimal)
BTP 125-270 BTP 200-300 BTP 300-300	J15A-10	5707-250	.250	5707-136	136
BTP 125-400	J15A-10	5707-312	.312	5707-152	152
BTP 125-540 BTP 200-600 BTP 300-600 BTP 400-600	J15A-10	5707-406	.406	5707-180	180
BTP 125-720 BTP 600-720	J30A-12	5707-500	.500	5707-205	205
BTP 200-800 BTP 300-800 BTP 400-800	J30A-12	5707-500	.500	5707-221	221
BTP 200-1000 BTP 300-1000 BTP 400-1000 BTP 600-1000	J30A-12	5707-625	.625	5707-257	257
BTP 200-1250 BTP 300-1250 BTP 400-1250 BTP 600-1250	J30A-12	5707-875	.875	5707-313	313

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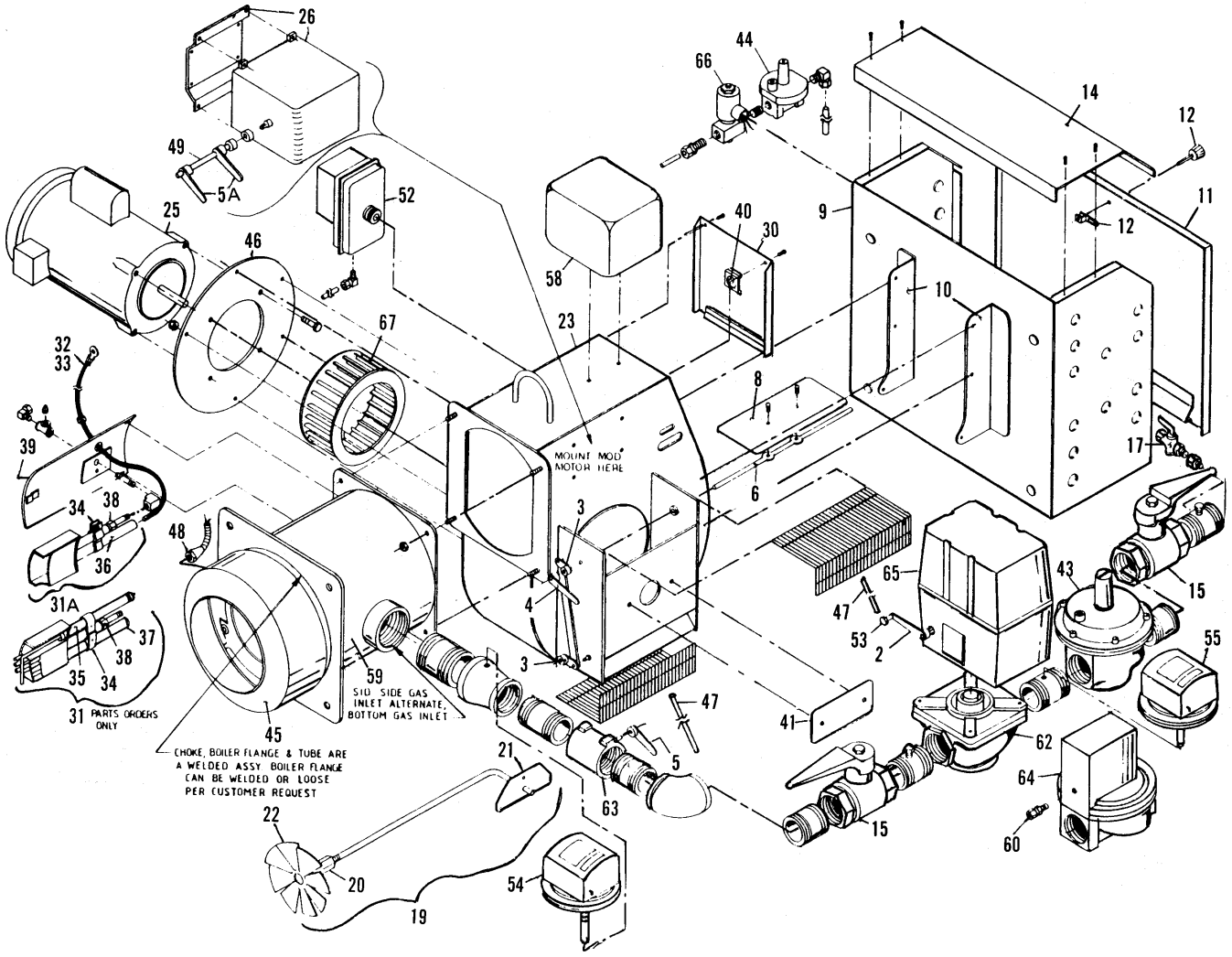
POWER BURNER MODELS CR2-G-15 AND CR2-G-20A


MOUNT MOD MOTOR HERE
STD SIDE GAS INLET ALTERNATE BOTTOM GAS INLET
CHOKE, BOILER FLANGE & TUBE ARE A WELDED ASSY. BOILER FLANGE CAN BE WELDED OR LOOSE PER CUSTOMER REQUEST
PARTS ORDERS ONLY

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POWER BURNER MODELS CR2-G-15 AND CR2-G-20A

Item	Description	Part Number
1	*Amplifier	
	Flame Rod Pilot, Green Amp (CR2-G-15)	5701
	Scanner Pilot, Purple Amp (CR2-G-20)	5701-1
2	Arm, Crank	5753
3	Arm, Damper	5723-1
4	Arm, Steel Crank (Aluminum Hub Assembly	
	For Damper 5/16" ID)	5754
5	Arm, Steel Crank (Aluminum Hub Assembly	
	For Oil Valve or Butterfly 3/8" ID)	5754-1
5A	Arm, Steel Crank (Aluminum Hub Assembly	
	For Extension Shaft 1/2" ID)	5754-2
6	Axle,Damper	5725-1
8	Blade,Damper	5726-1
	Box, Complete Panel	
9	Body,Panel Box	5756
10	Bracket, Mounting	
	Integral	5757
	Remote Bottom	5757-1
	Remote Top	5757-2
11	Door, Panel Box	5758
12	Latch & Knob, Door	5736
13	*Plate, Chassis	5759
14	Top, Panel Box Hinged	5760
15	Cock, Gas	
	CR2-G-15	5719-4
	CR2-G-20	5719-5
17	Cock,PilotGas	5720
18	*Control-Less Amplifier	5702-1
19	Gas Drawer	
	Straight Assembly	5763-3
	Spinner Mounted Scanner	5763-4
22	Spinner	
	Photocell	5764
	Scanner	5764-1
23	Housing, Blower	5721-1
24	*Light, Signal	
	Amber	5728
	White	5728-1
25	Motor, Blower	
	CR2-G-15 (1/2 HP)	5705-2
	CR2-G-20 (3/4 HP)	5705-4
26	Motor, Modulating & Bracket	5765
27	*Orifice, Side (2")	(SEE CHART)
28	*Spring, Orifice	5751-1
29	*Tee, Orifice	5750-1
30	Plate, Housing Back	5766
	Pilot Assembly, Complete	
31	+Flame Rod (CR2-G-15)	5706-3
31A	+Scanner (CR2-G-20A)	5706-4
32	Cable, Ignition (Consisting Of)	
	Cable #14-19 GTO 15,000	5710
	*#2Rajah Ring Terminal	5713
	*CT-11 Rajah Cage Terminal	5714
33	Cable, Flame Rod (Consisting Of)	
	Cable, #14-19 GTO 15,000	5710
	*Stud, Ring (2)	5711
34	Clamp, Flanged Rod & Ignition Electrode	5767-1
34A	Clamp, Ignition Electrode	5767

Item	Description	Part Number
35	Flame Rod With Porcelain (CR2-G-15)	5744
36	Ignition Electrode With Porcelain	5746
37	Insulator, Porcelain (Flame Rod)	5745
38	Orifice, Pilot	
	Natural (CR2-G-15)	5709
	Natural (CR2-G-20A)	5709-2
	Propane	5709-1
39	Plate, Pilot Mounting	5743-1
40	Plate, Back Sight Glass	5729
41	Plate, Pump Opening (Damper Cover)	5791
43	Regulator, Main Gas (Natural Only)	
	CR2-G-15	5741-2
	CR2-G-20A	5741-3
44	Regulator, Pilot	
	CR2-G-15	5742
	CR2-G-20A	5742-1
45	Ring, End (For Burners Before 5-11-81 Only)	5718-1
46	Ring, Motor Plate	5769
47	Rod, Push	5770
48	Scanner(CR2-G-20A)	5712-1
49	Shalt, Extension (For Mod Motor)	5771
51	*Sub-Base	95657
52	Switch, Air	5752
53	Swivel (Ball Joint)	5773
54	Switch, High Gas Pressure (CR2-G-20A)	5774
55	Switch, Low Gas Pressure (CR2-G-20A)	5774-1
56	*Terminal Strip	
	Adapter, End Mounting	5731-1
	Strip, Marking	5731-2
	Terminal Block	5731
57	*Timer, Control	5704
58	Transformer, Ignition	5734
59	Tube, Blast	
	CR2-G-15	5715-1
	CR2-G-20	5715-3
60	Valve, Adjustable Bleed (CR2-G-15)	5738
61	*Valve, Auxiliary Solenoid Gas:	
	CR2-G-15	5737-2
	CR2-G-20A	5737-3
62	Valve Body, Gas:	
	CR2-G-15	5777-3
	CR2-G-20A	5775-1
63	Valve, Butterfly:	
	CR2-G-15	5776
	CR2-G-20A	5776-1
64	Valve, Diaphragm Gas (C2-G-15)	5739-2
65	Valve Operator, Gas:	
	CR2-G-15	5777-2
	CR2-G-20A	5777-1
66	Valve, Pilot:	
	CR2-G-15	5740
	CR2-G-20A	5740-1
67	Wheel, Blower:	
	CR2-G-15	5733-2
	CR2-G-20A	5733-3
68	Standard hardware items may be purchased locally	

*Not illustrated

+When ordering, tell if needed for Natural or Propane gas.

ORIFICE CHART

Models	Burner Number	Part No	Natural Gas Orifice (Decimal)	Part No	Propane Gas Orifice (Decimal)
BTP 200-1500 BTP 300-1500 BTP 400-1500 BTP 600-1500	CR2-G-15	5708	.843	5708-5	.437
BTP 400-1750 BTP 600-1750	CR2-G-15	5708-1	.921	5708-6	.500
BTP 400-2000 BTP 600-2000	CR2-G-15	5708-2	1.000	5708-7	.531
BTP 400-2250 BTP 600-2250	CR2-G-20A	5708-3	1.437	5708-9	.562
BTP 400-2500 BTP 600-2500	CR2-G-20A	5708-4	1.812	5708-10	.652

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